



# SPYWOLF

## Security Audit Report



Completed on  
**June 22, 2022**

MADE IN USA 

@SPYWOLFNETWORK



@SPYWOLFNETWORK



SPYWOLF.CO





# OVERVIEW

This audit has been prepared for **StepGain** to review the main aspects of the project to help investors make an informative decision during their research process.

You will find a summarized review of the following key points:

- ✓ Contract's source code
- ✓ Owners' wallets
- ✓ Tokenomics
- ✓ Team transparency and goals
- ✓ Website's age, code, security and UX
- ✓ Whitepaper and roadmap
- ✓ Social media & online presence

“

*The results of this audit are purely based on the team's evaluation and does not guarantee nor reflect the projects outcome and goal*

- SPYWOLF Team -

”





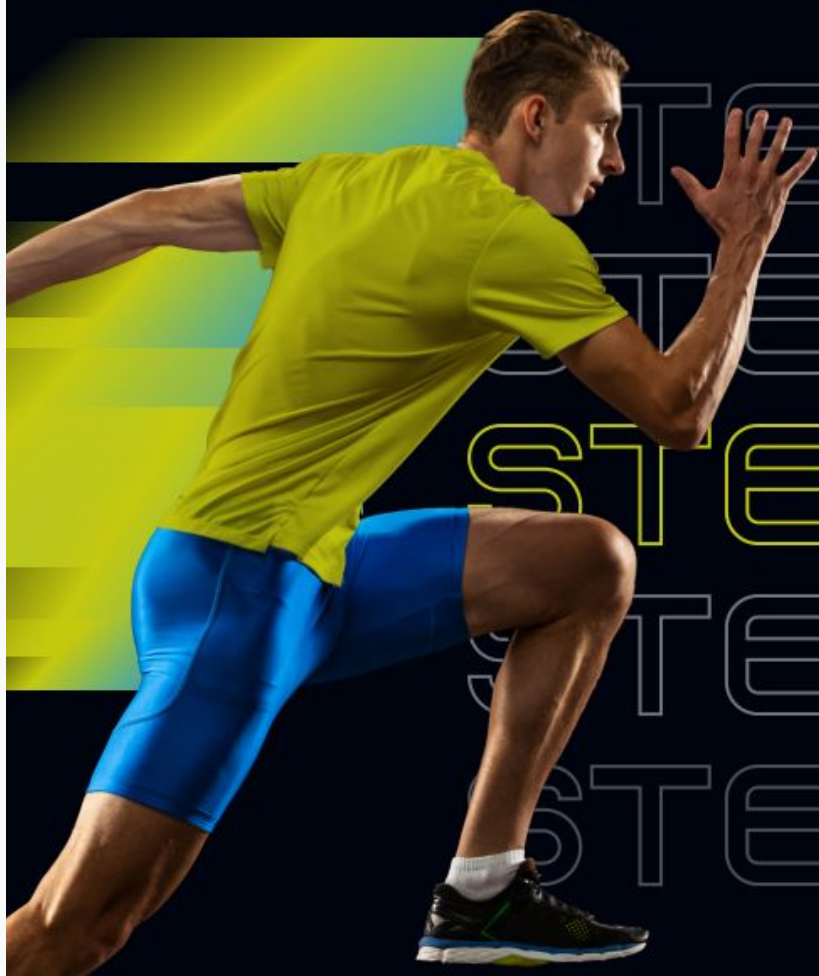
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# STEPGAIN



## PROJECT DESCRIPTION

### According to their whitepaper:

StepGain will be a web 3.0 lifestyle app with Game-Fi and Social-Fi features, implementing the Move-to-Earn concept.

Users buy NFT sneakers to earn rewards in EST while walking, running & jogging with the app.

Users/players can buy and sell NFT sneakers on the NFT marketplace, they can track their activity progress on the app.

Users' EST earnings are stored on the in-app decentralized wallet and can be sent out to external wallets as well.

**Release Date:** Presale starts on June, 2022

**Category:** Move to earn



01



# CONTRACT INFO

Token Name

Earn Satoshi Token

Symbol

EST

Contract Address

0x1304f769d9196404957B16394b61169A74944F9D

Network

Binance Smart Chain

Language

Solidity

Deployment Date

June 12, 2022

Verified?

Yes

Total Supply

1,000,000,000

Status

Not launched

## TAXES

Buy Tax

**12%**

Sell Tax

**15%**

\*Taxes can be changed in future



## Our Contract Review Process

The contract review process pays special attention to the following:

- ✓ Testing the smart contracts against both common and uncommon vulnerabilities
- ✓ Assessing the codebase to ensure compliance with current best practices and industry standards.
- ✓ Ensuring contract logic meets the specifications and intentions of the client.
- ✓ Cross referencing contract structure and implementation against similar smart contracts produced by industry leaders.
- ✓ Thorough line-by-line manual review of the entire codebase by industry experts.

### Blockchain security tools used:

- OpenZeppelin
- Mythril
- Solidity Compiler
- Hardhat



# CURRENT STATS

(As of June 22, 2022)



Liquidity

Not added yet



Burn

No burnt tokens

Status:  
**Not Launched!**

MaxSellTxAmount  
1,000,000

DEX  
PancakeSwap

LP Address(es)

Liquidity not added yet



## TOKEN TRANSFERS STATS

Transfer Count	1
Uniq Senders	1
Uniq Receivers	1
Total Amount	10000000000 EST
Median Transfer Amount	10000000000 EST
Average Transfer Amount	10000000000 EST
First transfer date	2022-06-12
Last transfer date	2022-06-12
Days token transferred	1

## SMART CONTRACT STATS

Calls Count	1
External calls	1
Internal calls	0
Transactions count	1
Uniq Callers	1
Days contract called	1
Last transaction time	Jun-12-2022 02:11:27 PM UTC
Created	Jun-12-2022 02:11:27 PM UTC
Create TX	0xc6c63b0a3a33632bab4eb9ac01c5d5b751d12f88c73d4409cfada8ec9dfb7754
Creator	0x6c87ea7febb120cfc150dc129b8a76e70b0f040d



# FEATURED WALLETS

Owner address	0x6C87Ea7FEbb120cFc150DC129B8a76E70b0F040D
Marketing fee receiver	0x65d1b693756d98f9a056041f8c91f597dec18b48
Auto liquidity receiver	0x7557cdc373788ee56274d9131b46b427c104eee1
LP address	Liquidity not added yet

## TOP 3 UNLOCKED WALLETS

1



Same as owner

\*Tokens are not distributed yet





# VULNERABILITY CHECK

Design Logic	Passed
Compiler warnings.	Passed
Private user data leaks	Passed
Timestamp dependence	Passed
Integer overflow and underflow	Passed
Race conditions and reentrancy. Cross-function race conditions	Passed
Possible delays in data delivery	Passed
Oracle calls	Passed
Front running	Passed
DoS with Revert	Passed
DoS with block gas limit	Passed
Methods execution permissions	Passed
Economy model	Passed
Impact of the exchange rate on the logic	Passed
Malicious Event log	Passed
Scoping and declarations	Passed
Uninitialized storage pointers	Passed
Arithmetic accuracy	Passed
Cross-function race conditions	Passed
Safe Zeppelin module	Passed
Fallback function security	Passed



# THREAT LEVELS

When performing smart contract audits, our specialists look for known vulnerabilities as well as logical and access control issues within the code. The exploitation of these issues by malicious actors may cause serious financial damage to projects that failed to get an audit in time. We categorize these vulnerabilities by the following levels:

## High Risk

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Issues on this level are critical to the smart contract's performance/functionality and should be fixed before moving to a live environment.

## Medium Risk

---

Issues on this level are critical to the smart contract's performance/functionality and should be fixed before moving to a live environment.

## Low Risk

---

Issues on this level are minor details and warning that can remain unfixed.

## Informational

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Information level is to offer suggestions for improvement of efficacy or security for features with a risk free factor.



# FOUND THREATS

## ⚠ Medium Risk

Owner can set buy/sell fees up to 19% (combined buy+sell=38%).

```
uint256 public constant feeDenominator = 100;

function setFees(uint256 _liquidityFee, uint256 _buybackFee,
uint256 _reflectionFee, uint256 _marketingFee ) external authorized {
    liquidityFee = _liquidityFee;
    buybackFee = _buybackFee;
    reflectionFee = _reflectionFee;
    marketingFee = _marketingFee;
    totalFee = _liquidityFee.add(_buybackFee).add(_reflectionFee).add(_marketingFee);
    require(
        totalFee < feeDenominator / 5,
        "Total fee should not be greater than 20%"
    );
}
```

Owner can change max sell transaction limit, but can't lower it than 0.01% of total supply.

```
function setAntiWhaleSellLimitDenominator(uint256 newDenominator) external authorized {
    require(newDenominator >= 1 && newDenominator <= 10000,
        "amount must be greater than 0.01% of circulating supply supply and cannot be 0");
    antiWhaleTxLimitDenominator = newDenominator;
}
```

- Recommendation:
  - Considered as good tax deduction practice is buy and sell fees combined not to exceed 25%.
  - Considered as good transaction limitation practice is each transaction allowed amount to be not lower than 0.1% of total supply.



# FOUND THREATS

## ⚠ High Risk

Owner can change swapback settings.

If swapEnabled is set to true and swapThreshold is set to 0, selling fails.

```
function setSwapBackSettings(bool _enabled, uint256 _amount) external authorized {  
    swapEnabled = _enabled;  
    swapThreshold = _amount;  
}
```

- Recommendation:
  - To avoid the risk of contract become honeypot, swapThreshold value must be always above 1.



RECOMMENDATIONS FOR

# GOOD PRACTICES

---

1

Consider fundamental tradeoffs

2

Be attentive to blockchain properties

3

Ensure careful rollouts

4

Keep contracts simple

5

Stay up to date and track development

## StepGain

### GOOD PRACTICES FOUND

- ✓ The owner cannot mint new tokens after deployment
- ✓ The owner cannot stop or pause the contract
- ✓ The owner can set a transaction limit, but can't lower it than 1% of total supply
- ✓ The smart contract utilizes "SafeMath" to prevent overflows

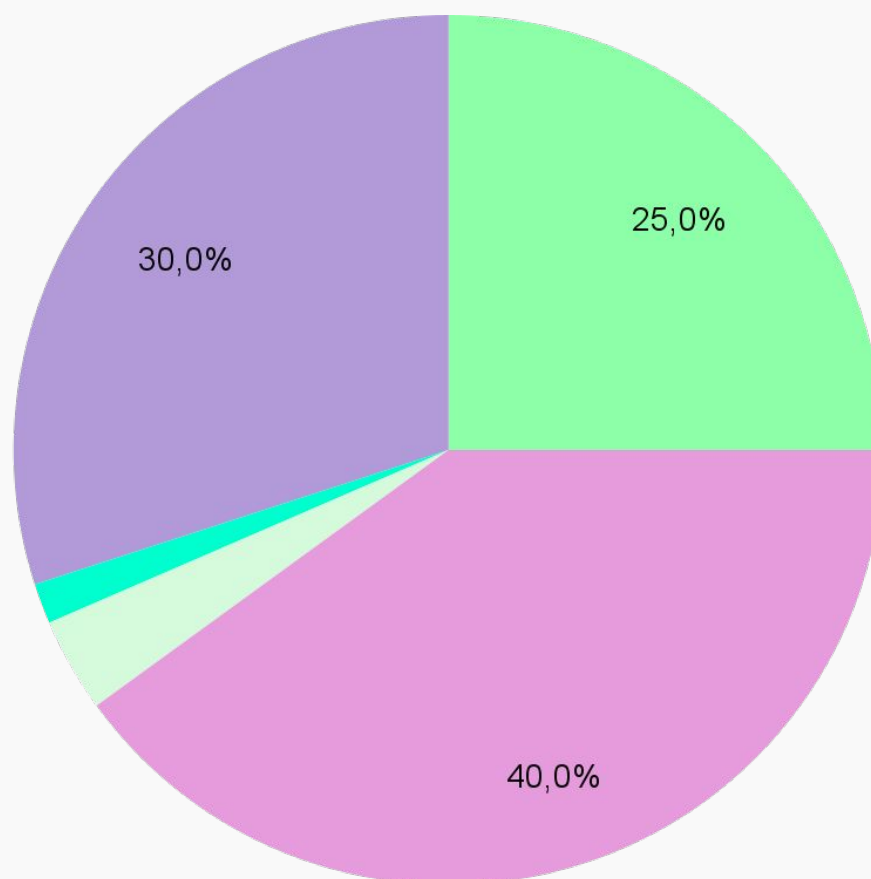


\*The following tokenomics are based on the project's whitepaper and/or website:

- 25% - Presale
- 3.5% - Team
- 40% - Ecosystem development
- 1.5% - Advisors
- 30% - Move to earn rewards

## Token Distribution

- Presale
- Ecosystem development
- Team
- Advisors
- Move to earn rewards



TOKENOMICS



# THE TEAM

The team has privately doxxed to SPYWOLF by completing the following KYC requirements:

- ID Verification
- Video statement
- Video interview with devs
- Owner's wallet verification

## KYC INFORMATION

Issuer

SPYWOLF

Members KYC'd



KYC Date

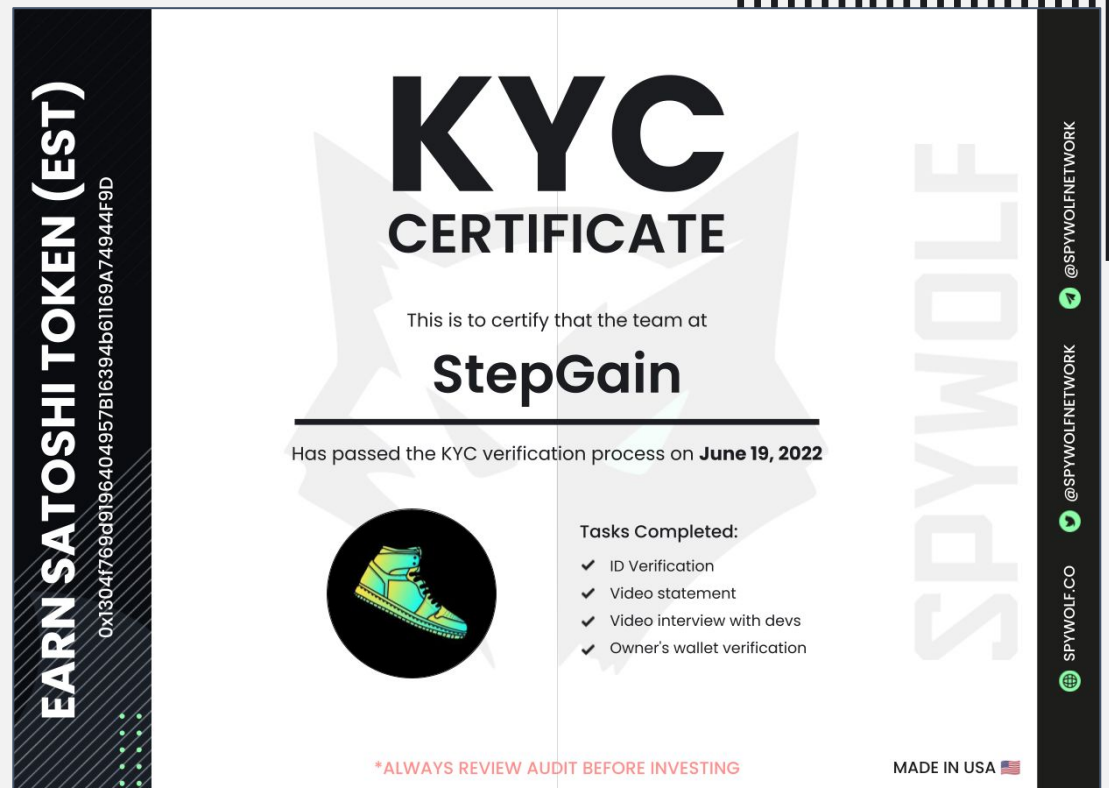
June 18, 2022

Format

Image

Certificate Link

<https://opensea.io/assets/matic/0x2953399124f0cbb46d2cbacd8a89cf0599974963/99844844277068474025626073867816441448450620712689519536016720673743692627969.png>





# WEBSITE

## Website URL

<https://stepgain.fit/>

## Domain Registry

<http://www.namecheap.com>

## Domain Expiration

Expires on 2023-06-06

## Technical SEO Test

Passed

## Security Test

Passed. SSL certificate present

## Design

Single page, not appropriate background hover color on some of the elements (text become unreadable).

## Content

The information helps new investors understand what the product does right away. No grammar errors found.

## Whitepaper

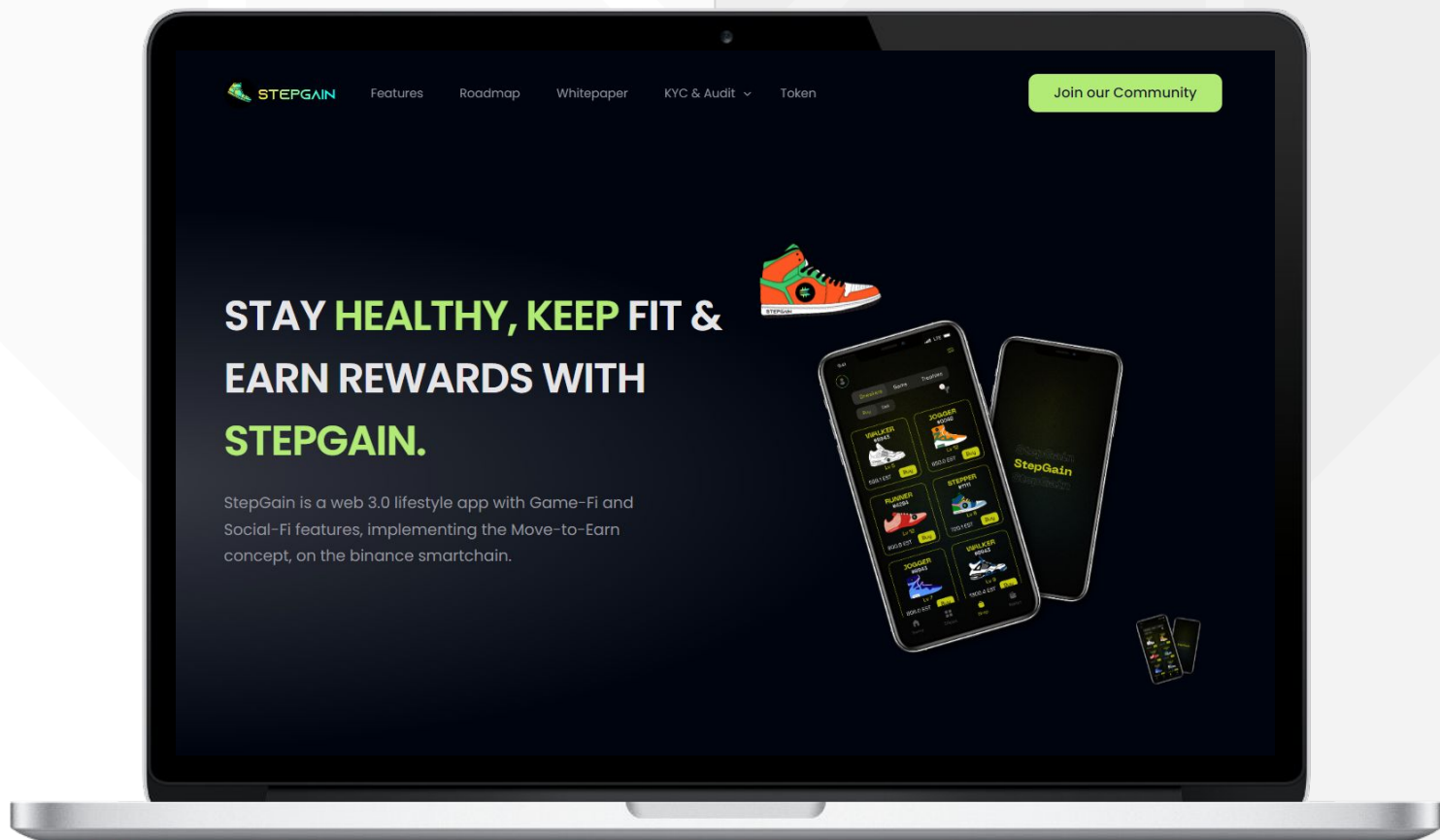
Well written, explanatory.

## Roadmap

Yes, goals set at 4 phases with time frames.

## Mobile-friendly?

Yes



# stepgain.fit





# SOCIAL MEDIA & ONLINE PRESENCE



## ANALYSIS

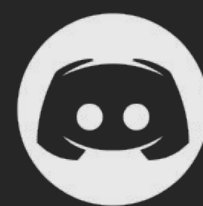
Project's social media pages are new and not very active



### Twitter

<https://twitter.com/STEPGAIN1>

- 5 followers ⚠️
- 3 total posts ⚠️



### Discord

- Not available



### Telegram

<https://t.me/StepGainOfficial>

- 3 members ⚠️
- Announcement channel, 3 announcements in the course of 10 days



### Medium

- Not available



# SPYWOLF

## CRYPTO SECURITY

Audits | KYCs | dApps  
Contract Development

## ABOUT US

We are a growing crypto security agency offering audits, KYCs and consulting services for some of the top names in the crypto industry.

- ✓ OVER 150 SUCCESSFUL CLIENTS
- ✓ MORE THAN 500 SCAMS EXPOSED
- ✓ MILLIONS SAVED IN POTENTIAL FRAUD
- ✓ PARTNERSHIPS WITH TOP LAUNCHPADS, INFLUENCERS AND CRYPTO PROJECTS
- ✓ CONSTANTLY BUILDING TOOLS TO HELP INVESTORS DO BETTER RESEARCH

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[t.me/joe\\_SpyWolf](https://t.me/joe_SpyWolf)

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[@SPYWOLFNETWORK](https://github.com/SPYWOLFNETWORK)



# Disclaimer

This report shows findings based on our limited project analysis, following good industry practice from the date of this report, in relation to cybersecurity vulnerabilities and issues in the framework and algorithms based on smart contracts, overall social media and website presence and team transparency details of which are set out in this report. In order to get a full view of our analysis, it is crucial for you to read the full report.

While we have done our best in conducting our analysis and producing this report, it is important to note that you should not rely on this report and cannot claim against us on the basis of what it says or doesn't say, or how we produced it, and it is important for you to conduct your own independent investigations before making any decisions. We go into more detail on this in the disclaimer below – please make sure to read it in full.

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No applications were reviewed for security. No product code has been reviewed.